

# Review Sheet #1

## Fractions.

1)  $\frac{3}{11} + \frac{4}{11}$

2)  $\frac{3}{8} + \frac{1}{2}$

3)  $\frac{7}{12} - \frac{1}{12}$

4)  $\frac{2}{3} \cdot \frac{3}{5}$

5)  $\frac{3}{8} \cdot \frac{6}{7}$

6)  $\frac{11}{12} \div \frac{2}{3}$

7)  $\frac{5}{16} + \frac{1}{4}$

8)  $\frac{7}{12} - \frac{1}{4}$

9)  $\frac{45}{49} \cdot \frac{21}{25}$

10)  $\frac{3}{16} + \frac{7}{12}$

*Reduce each fraction.*

11)  $\frac{6}{9}$

12)  $\frac{30}{120}$

13)  $\frac{35}{49}$

14)  $\frac{24}{60}$

15)  $\frac{36}{270}$

16)  $\frac{175}{225}$

# Review Sheet #2

*Reduce each fraction.*

1)  $\frac{2}{8}$

2)  $\frac{14}{35}$

3)  $\frac{3600}{4500}$

4)  $\frac{48}{600}$

## **Decimals.**

5)  $87.5 + 7.35$

6)  $302.47 - 4.6$

7)  $51.8 - 4.26$

8)  $212 - 0.03$

## **Fractions.**

9)  $\frac{2}{15} + \frac{4}{15}$

10)  $\frac{4}{5} + \frac{2}{15}$

11)  $\frac{7}{11} - \frac{3}{5}$

12)  $\frac{5}{12} - \frac{3}{20}$

13)  $\frac{3}{8} \div \frac{6}{7}$

14)  $\frac{3}{4} \cdot \frac{14}{15}$

## Review Sheet #3

1)  $\frac{15}{16} \cdot \frac{20}{21}$

2)  $\frac{8}{12} \div \frac{49}{77}$

**Division.** Leave your answers as mixed numbers (e.g.  $3\frac{2}{5}$ ), and use short division if the divisor is only one digit. *Show your work on a separate sheet, if needed.*

3)  $3745 \div 4$

4)  $25257 \div 9$

5)  $4300 \div 63$

6)  $32900 \div 81$

**Decimals.**

7)  $30.5 + 5.26$

8)  $92.4 - 0.286$

9)  $51.893 - 4.26$

10)  $0.04 \cdot 0.7$

11)  $0.006 \cdot 0.03$

12)  $6 \cdot 0.03$

13)  $0.06 \cdot 8000$

14)  $0.07 \cdot 2.3$

*Reduce each fraction.*

15)  $\frac{540}{720}$

16)  $\frac{280}{44000}$

# Review Sheet #4

## Fractions.

1)  $\frac{7}{10} + \frac{2}{25}$

2)  $\frac{27}{37} + \frac{9}{37}$

3)  $\frac{3}{8} \div \frac{11}{16}$

4)  $\frac{18}{25} \cdot \frac{15}{16}$

5) Convert to a mixed number (e.g.  $3\frac{2}{5}$ ).

a)  $\frac{23}{3}$

b)  $\frac{77}{12}$

6) Convert to an improper fraction.  
(e.g.  $\frac{12}{7}$ )

a)  $5\frac{2}{3}$

b)  $11\frac{7}{8}$

## Short Division.

7)  $6583 \div 4$

8)  $26618 \div 7$

## Mixed numbers.

9)  $4\frac{7}{11} + 3\frac{8}{11}$

10)  $8\frac{5}{12} + 9\frac{7}{8}$

## Fractions.

11)  $\frac{4}{5} + \frac{2}{7}$

12)  $\frac{4}{5} - \frac{1}{5}$

13)  $\frac{8}{9} \div \frac{6}{7}$

14)  $\frac{5}{12} \cdot \frac{8}{15}$

15)  $5\frac{7}{8} + 12\frac{2}{3}$

# Review Sheet #5

1)  $7\frac{7}{8} - 2\frac{5}{8}$

2)  $7\frac{5}{8} - 2\frac{7}{8}$

3)  $7\frac{3}{8} - 2\frac{4}{5}$

4) Convert to a mixed number.

$$\frac{75}{8}$$

5) Convert to an improper fraction.

$$7\frac{3}{8}$$

## Short Division.

Leave your answer as a mixed number.

6)  $867 \div 5$

7)  $62794 \div 7$

## Long Division.

Leave your answers as mixed numbers. *You must show your work on a separate piece of paper.*

8)  $3497 \div 81$

9)  $18457 \div 683$

10) Leave your answer as a decimal.  
 $91.35 \div 72.5$

## Decimals.

11)  $56.32 + 0.004$

12)  $56.32 - 0.004$

13)  $(0.032)^2$

# Review Sheet #6

## Short Division.

- 1) Leave your answer as a mixed number.

$$4739 \div 8$$

- 2) Leave your answer as a decimal.

$$180247 \div 3$$

## Long Division.

Fix the divisor.

Make the divisor easier by getting rid of the decimal or the ending zeroes. *Do not actually divide yet.*

Example:  $735.48 \div 8.3$

We change the problem to  $\underline{7354.8} \div \underline{83}$

Example:  $528.3 \div 2600$

We change the problem to  $\underline{5.283} \div \underline{26}$

- 3)  $21.3 \div 5.68$

We change it to:

- 4)  $687.4 \div 37000$

We change it to:

- 5)  $7 \div 0.097$

We change it to:

*For the rest of the problems on this sheet, show your work on a separate sheet.*

Now, consider the answers that you just gave and do each division problem. Give your answers as decimals, and stop at four significant digits.

6)  $21.3 \div 5.68$

7)  $687.4 \div 37000$

8)  $7 \div 0.097$

## Fractions.

9)  $\frac{4}{15} + \frac{10}{15}$

10)  $\frac{7}{20} + \frac{11}{15}$

11)  $\frac{5}{8} \cdot \frac{6}{7}$

12)  $\frac{5}{6} \div \frac{5}{12}$

13)  $9\frac{5}{7} + 4\frac{3}{4}$

# Review Sheet #7

## Fractions & decimals.

1)  $512.7 + 6.48$

2)  $80.4 - 3.47$

3)  $(0.0087)^2$

4)  $(0.02)^5$

5)  $(3\frac{2}{3})^2$

6) Convert to mixed.  
 $\frac{65}{9}$

7) Convert to improper.  
 $8\frac{4}{9}$

8)  $\frac{5}{6} + \frac{5}{8}$

9)  $\frac{48}{49} \cdot \frac{35}{36}$

10)  $5\frac{1}{2} \cdot 3\frac{2}{3}$

11)  $5\frac{1}{2} \div 3\frac{2}{3}$

12)  $3\frac{2}{3} \div 5\frac{1}{2}$

13)  $3\frac{3}{4} \cdot \frac{17}{3}$

14) *Short Division.*  
Leave your answer  
as a mixed number.  
 $35451 \div 6$

15) What is  $2^{20}$ ?

# Review Sheet #8

## Long Division.

*Fix the divisor.*

Make the divisor easier by getting rid of the decimal or the ending zeroes. *Do not actually divide yet.* (See examples on the previous worksheet, if necessary.)

1)  $700 \div 6.6$

We change it to:

2)  $41.7736 \div 0.047$

We change it to:

3)  $8.39 \div 1800$

We change it to:

*Divide.* Leave your answers as exact decimals (perhaps repeating).

4)  $700 \div 6.6$

5)  $41.7736 \div 0.047$

6)  $8.39 \div 1800$

## Fractions.

7)  $\frac{3}{4} - \frac{11}{18}$

8)  $\frac{42}{49} \cdot \frac{33}{44}$

9)  $(2\frac{1}{2})^2$

10)  $(10\frac{2}{5})^2$

11)  $2\frac{2}{5} + 1\frac{7}{8}$

12)  $2\frac{2}{5} - 1\frac{7}{8}$

13)  $2\frac{2}{5} \cdot 1\frac{7}{8}$

14)  $2\frac{2}{5} \div 1\frac{7}{8}$

15)  $2\frac{2}{3} \cdot 6\frac{3}{4}$



# Review Sheet #9

1) *Short Division.*

Fix the divisor and then leave the answer as an exact decimal (perhaps repeating).

$$748.4 \div 0.09$$

## Long Division.

Fix the divisor and then divide. Leave your answers as exact decimals (perhaps repeating).

2)  $7 \div 22000$

3)  $6.52 \div 0.0074$

4) Leave the answer as a mixed number.

$$3285 \div 37$$

## Fractions.

5)  $\frac{5}{6} - \frac{3}{8}$

6)  $(3\frac{3}{5})^2$

7)  $312\frac{2}{5} - 309\frac{2}{3}$

8)  $4\frac{1}{6} \div \frac{5}{9}$

9) Convert the following improper fraction to *both* a mixed number and an exact decimal.

$$\frac{6231}{88}$$

## Convert to decimals.

10) Some of these you should have memorized, for others (20ths, 11ths, 9ths, 99ths, etc.) there are tricks, and for the rest you'll have to divide.

a)  $\frac{1}{4}$

b)  $\frac{7}{8}$

c)  $\frac{7}{9}$

d)  $\frac{3}{20}$

e)  $\frac{3}{4}$

f)  $\frac{1}{5}$

g)  $\frac{3}{8}$

h)  $\frac{83}{99}$

i)  $\frac{8}{11}$

j)  $\frac{11}{40}$

k)  $\frac{4}{5}$

l)  $\frac{19}{20}$

m)  $\frac{6}{11}$

n)  $\frac{19}{30}$

# Review Sheet #10

## Fractions.

1)  $\frac{16}{25} + \frac{14}{15}$

2)  $7\frac{4}{5} \div 3\frac{1}{4}$

3)  $\frac{7\frac{4}{5}}{3\frac{1}{4}}$

4)  $657\frac{8}{9} - 652\frac{2}{3}$

5)  $(3\frac{1}{3})^3$

6)  $73\frac{3}{11} - 68\frac{1}{2}$

7)  $\frac{5}{9} + \frac{7}{36}$

8)  $\frac{5\frac{5}{8}}{6}$

9)  $3 \div 4\frac{3}{8}$

10)  $4\frac{3}{8} \cdot 5$

11) *Short Division.*  
Leave your answer  
as an exact  
decimal.

$$76941 \div 800$$

12) *Long Division.*  
Leave your answer  
rounded to three  
significant digits.

$$57.2 \div 4.83$$

13) Convert the  
following improper  
fraction to *both* a  
mixed number and  
an exact decimal.

$$\frac{7671}{37}$$

# Review Sheet #11

- 1) *Short Division.*  
Leave your answer as  
a mixed number.  
 $94034 \div 6$

- 2) Convert the  
following improper  
fraction to *both* a mixed  
number and an exact  
decimal.

$$\frac{697}{24}$$

## Fractions.

3)  $39\frac{2}{7} + 33\frac{3}{4}$

4)  $(2\frac{1}{2})^4$

5)  $\frac{4\frac{1}{2}}{\frac{4}{5}}$

## Decimals.

6)  $379.4 - 6.932$

7)  $(0.0079)^2$

8)  $(1.1)^4$

## Long Division.

What is the mistake in  
the problem shown  
below?

9) 
$$\begin{array}{r} 161 \\ 47 \overline{) 7990} \\ \underline{-47} \phantom{0} \\ 329 \\ \underline{-282} \\ 47 \\ \underline{-47} \\ 0 \end{array}$$

*Round your answers to  
three significant digits.*

10)  $2.52 \div 8200$

11)  $1300 \div 6.78$

# Review Sheet #12

## Division.

- 1) Leave your answer as a mixed number.  
 $62223 \div 8$
  
  
  
  
  
  
  
  
  
  
- 2) Leave your answer as an exact decimal.  
 $87.5 \div 4.44$
  
  
  
  
  
  
  
  
  
  
- 3) *Division.*  
Leave your answer as an exact decimal.  
 $87.1 \div 16000$

## Fractions.

- 4)  $80\frac{1}{6} - 70\frac{5}{8}$
  
  
  
  
  
  
  
  
  
  
- 5)  $(\frac{9}{70})^3$
  
  
  
  
  
  
  
  
  
  
- 6) What is  $\frac{1}{8}$  of 4000?
  
  
  
  
  
  
  
  
  
  
- 7) What is  $\frac{5}{6}$  of 420?
  
  
  
  
  
  
  
  
  
  
- 8) What is half of  $\frac{7}{9}$ ?
  
  
  
  
  
  
  
  
  
  
- 9) What is half of  $\frac{6}{11}$ ?

10) What is  $\frac{3}{7}$  doubled?

11) What is  $\frac{3}{16}$  doubled?

12) Reduce  $\frac{400}{450}$

13) Reduce  $\frac{306}{1980}$

## Decimals.

14)  $345.9 + 65.93$

15)  $345.9 - 65.93$

# Review Sheet #13

## Conversions.

Look through each of the below problems and circle all of the ones you can do in your head. After giving the answers of the ones that you circled, do the others by showing your work on a separate sheet. You'll need to divide for some.

1) Convert to a decimal.

- a)  $\frac{3}{4}$
- b)  $\frac{5}{11}$
- c)  $\frac{3}{20}$
- d)  $\frac{3}{1000}$
- e)  $\frac{7}{25}$
- f)  $\frac{131}{400}$
- g)  $\frac{97}{135}$
- h)  $\frac{3}{8}$

2) Convert to a fraction.

Again, circle those that can be done in your head.

Note that some of the repeating decimals can be converted to a fraction quite easily in your head.

As always, answers should be given as reduced fractions.

- a) 0.3
- b) 0.5

- c) 0.5
- d) 0.75
- e) 0.8
- f) 0.0025
- g) 0.1
- h) 0.83
- i) 0.65

## Fractions.

3) Reduce each fraction.

- a)  $\frac{28}{30}$
- b)  $\frac{7560}{8100}$

c)  $\frac{900}{21000}$

4)  $\frac{7}{8} + \frac{7}{12}$

5)  $\frac{27}{35} \cdot \frac{19}{27}$

6)  $4\frac{3}{8} \div 1\frac{5}{16}$

7)  $\frac{4\frac{3}{8}}{1\frac{5}{16}}$

8)  $\frac{1\frac{5}{16}}{4\frac{3}{8}}$

9) What is half of  $\frac{5}{16}$  ?

10) What is half of  $\frac{6}{17}$  ?

11) What is  $\frac{5}{16}$  doubled?

12) What is  $\frac{6}{17}$  doubled?

# Review Sheet #14

## Division.

- 1) Leave your answer as an exact decimal.

$$856 \div 2.7$$

- 2) Convert to a decimal.

a)  $\frac{5}{8}$

b)  $\frac{7}{11}$

c)  $\frac{23}{50}$

d)  $\frac{23}{30}$

e)  $\frac{89}{99}$

f)  $\frac{7}{1000}$

g)  $\frac{7}{999}$

h)  $\frac{29}{270}$

- 3) Convert to a fraction.

a) 0.3

b) 0.59

c) 0.59

d) 0.059

## Fractions.

- 4) What is half of  $\frac{8}{13}$ ?

- 5) What is half of  $\frac{7}{13}$ ?

- 6) What is  $\frac{9}{19}$  doubled?

- 7) What is  $\frac{9}{20}$  doubled?

8)  $(3\frac{1}{8})^2$

9)  $46\frac{2}{9} - 28\frac{4}{5}$

10)  $\frac{5\frac{3}{5}}{1\frac{2}{5}}$

11)  $5\frac{3}{5} \div 4$

12)  $5\frac{3}{5} \cdot 4$

## Conversions.

- 13) Convert to an exact decimal.

$$\frac{59}{444}$$

# Answer Key

## Sheet #1

- 1)  $\frac{7}{11}$
- 2)  $\frac{7}{8}$
- 3)  $\frac{1}{2}$
- 4)  $\frac{2}{5}$
- 5)  $\frac{9}{28}$
- 6)  $1\frac{3}{8}$
- 7)  $\frac{9}{16}$
- 8)  $\frac{1}{3}$
- 9)  $\frac{27}{35}$
- 10)  $\frac{37}{48}$
- 11)  $\frac{2}{3}$
- 12)  $\frac{1}{4}$
- 13)  $\frac{5}{7}$
- 14)  $\frac{2}{5}$
- 15)  $\frac{2}{15}$
- 16)  $\frac{7}{9}$

## Sheet #2

- 1)  $\frac{1}{4}$
- 2)  $\frac{2}{5}$
- 3)  $\frac{4}{5}$
- 4)  $\frac{2}{25}$
- 5) 94.85
- 6) 297.87
- 7) 47.54
- 8) 211.97
- 9)  $\frac{2}{5}$
- 10)  $\frac{14}{15}$
- 11)  $\frac{2}{55}$
- 12)  $\frac{4}{15}$
- 13)  $\frac{7}{16}$
- 14)  $\frac{7}{10}$

## Sheet #3

- 1)  $\frac{25}{28}$
- 2)  $1\frac{1}{21}$
- 3)  $936\frac{1}{4}$
- 4)  $2806\frac{1}{3}$
- 5)  $68\frac{16}{63}$
- 6)  $406\frac{14}{81}$
- 7) 35.76
- 8) 92.114
- 9) 47.633
- 10) 0.028
- 11) 0.00018
- 12) 0.18
- 13) 480

- 14) 0.161
- 15)  $\frac{3}{4}$
- 16)  $\frac{7}{1100}$

## Sheet #4

- 1)  $\frac{39}{50}$
- 2)  $\frac{36}{37}$
- 3)  $\frac{6}{11}$
- 4)  $\frac{27}{40}$
- 5) a)  $7\frac{2}{3}$  b)  $6\frac{5}{12}$
- 6) a)  $\frac{17}{3}$  b)  $\frac{95}{8}$
- 7)  $1645\frac{3}{4}$
- 8)  $3802\frac{4}{7}$
- 9)  $8\frac{4}{11}$
- 10)  $18\frac{7}{24}$
- 11)  $1\frac{3}{35}$
- 12)  $\frac{3}{5}$
- 13)  $1\frac{1}{27}$
- 14)  $\frac{2}{9}$
- 15)  $18\frac{13}{24}$

## Sheet #5

- 1)  $5\frac{1}{4}$
- 2)  $4\frac{3}{4}$
- 3)  $4\frac{23}{40}$
- 4)  $9\frac{3}{8}$
- 5)  $\frac{59}{8}$
- 6)  $173\frac{2}{5}$
- 7)  $8970\frac{4}{7}$
- 8)  $43\frac{14}{81}$
- 9)  $27\frac{16}{683}$
- 10) 1.26
- 11) 56.324
- 12) 56.316
- 13) 0.001024

## Sheet #6

- 1)  $592\frac{3}{8}$
- 2) 60082.3
- 3)  $2130\div 568$
- 4)  $0.6874\div 37$
- 5)  $7000\div 97$
- 6) 3.75
- 7) 0.01857
- 8) 72.16

- 9)  $\frac{14}{15}$
- 10)  $1\frac{1}{12}$
- 11)  $\frac{15}{28}$
- 12) 2
- 13)  $14\frac{13}{28}$

## Sheet #7

- 1) 519.18
- 2) 76.93
- 3) 0.00007569
- 4) 0.0000000032
- 5)  $13\frac{4}{9}$
- 6)  $7\frac{2}{9}$
- 7)  $\frac{76}{9}$
- 8)  $1\frac{11}{24}$
- 9)  $\frac{20}{21}$
- 10)  $20\frac{1}{6}$
- 11)  $1\frac{1}{2}$
- 12)  $\frac{2}{3}$
- 13)  $21\frac{1}{4}$
- 14)  $5908\frac{1}{2}$
- 15) 1,048,576

## Sheet #8

- 1)  $7000\div 66$
- 2)  $41773.6\div 47$
- 3)  $0.0839\div 18$
- 4) 106.06
- 5) 888.8
- 6) 0.004661
- 7)  $\frac{5}{36}$
- 8)  $\frac{9}{14}$
- 9)  $6\frac{1}{4}$
- 10)  $108\frac{4}{25}$
- 11)  $4\frac{11}{40}$
- 12)  $\frac{21}{40}$
- 13)  $4\frac{1}{2}$
- 14)  $1\frac{7}{25}$
- 15) 18

## Sheet #9

- 1) 8315.5
- 2) 0.000318
- 3) 881.081
- 4)  $88\frac{29}{37}$
- 5)  $\frac{11}{24}$
- 6)  $12\frac{24}{25}$

- 7)  $2\frac{11}{15}$
- 8)  $7\frac{1}{2}$
- 9) 10156
- 10) a) 0.25  
b) 0.875  
c) 0.7  
d) 0.15  
e) 0.75  
f) 0.2  
g) 0.375  
h) 0.83  
i) 0.72  
j) 0.275  
k) 0.8  
l) 0.95  
m) 0.54  
n) 0.63

## Sheet #10

- 1)  $1\frac{43}{75}$
- 2)  $2\frac{2}{5}$
- 3)  $2\frac{2}{5}$
- 4)  $5\frac{2}{9}$
- 5)  $37\frac{1}{27}$
- 6)  $4\frac{17}{22}$
- 7)  $\frac{3}{4}$
- 8)  $\frac{15}{16}$
- 9)  $\frac{24}{35}$
- 10)  $21\frac{7}{8}$
- 11) 96.17625
- 12)  $\approx 11.8$
- 13) 207.324 or  $207\frac{12}{37}$

## Sheet #11

- 1)  $15672\frac{1}{3}$
- 2)  $29\frac{1}{24}$  or 29.0416
- 3)  $73\frac{1}{28}$
- 4)  $39\frac{1}{16}$
- 5)  $5\frac{5}{8}$
- 6) 372.468
- 7) 0.00006241
- 8) 1.4641
- 9) Second remainder was equal to the divisor. Answer should be 170.
- 10) 0.000307
- 11) 192

# Answer Key

## Sheet #12

- 1)  $7777\frac{7}{8}$
- 2) 19.7072
- 3) 0.00544375
- 4)  $9\frac{13}{24}$
- 5)  $\frac{729}{343000}$
- 6) 500
- 7) 350
- 8)  $\frac{7}{18}$
- 9)  $\frac{3}{11}$
- 10)  $\frac{6}{7}$
- 11)  $\frac{3}{8}$
- 12)  $\frac{8}{9}$
- 13)  $\frac{17}{110}$
- 14) 411.83
- 15) 279.97

## Sheet #13

- 1) a) 0.75  
b) 0.45  
c) 0.15  
d) 0.003  
e) 0.28  
f) 0.3275  
g) 0.7185  
h) 0.375
- 2) a)  $\frac{3}{10}$   
b)  $\frac{5}{9}$   
c)  $\frac{1}{2}$   
d)  $\frac{3}{4}$   
e)  $\frac{4}{5}$   
f)  $\frac{1}{400}$   
g)  $\frac{1}{9}$   
h)  $\frac{5}{6}$   
i)  $\frac{65}{99}$
- 3) a)  $\frac{14}{15}$   
b)  $\frac{14}{15}$   
c)  $\frac{3}{70}$
- 4)  $1\frac{11}{24}$
- 5)  $\frac{19}{35}$
- 6)  $3\frac{1}{3}$
- 7)  $3\frac{1}{3}$
- 8)  $\frac{3}{10}$
- 9)  $\frac{5}{32}$
- 10)  $\frac{3}{17}$
- 11)  $\frac{5}{8}$
- 12)  $\frac{12}{17}$

## Sheet #14

- 1) 317.037
- 2) a) 0.625  
b) 0.63  
c) 0.46  
d) 0.76  
e) 0.89  
f) 0.007  
g) 0.007  
h) 0.007  
i) 0.00053  
j) 0.1074
- 3) a)  $\frac{1}{3}$   
b)  $\frac{59}{100}$   
c)  $\frac{59}{99}$   
d)  $\frac{59}{1000}$
- 4)  $\frac{4}{13}$
- 5)  $\frac{7}{26}$
- 6)  $\frac{18}{19}$
- 7)  $\frac{9}{10}$
- 8)  $9\frac{49}{64}$
- 9)  $17\frac{19}{45}$
- 10) 4
- 11)  $1\frac{2}{5}$
- 12)  $22\frac{2}{5}$
- 13)  $\frac{7}{132}$